















I MUST WARN YOU, SIR, OF THE ABSOLUTE SECRECY OF THIS WORK. HERE IS MY DESIGN FOR A JET ENGINE. IF WE SUCCEED, IT WILL MEAN A TURNING POINT IN AFRIAL



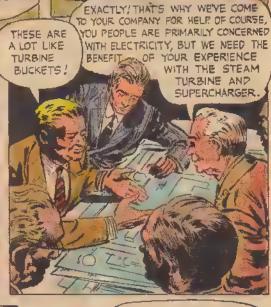


ROOM FOR IMPROVEMENT.













"AND SO, THE UNITED STATES JOINED BRITAIN AGAINST GERMANY IN THE RACE TO BUILD A PASTER PLANE --A JET PLANE!"

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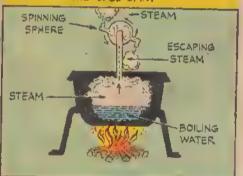
THE ARRIVAL OF THE BRITISH







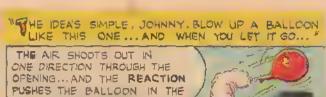
TEAM FORMED IN THE VESSEL BELOW PASSED INTO THE HOLLOW BALL AT TOP. AS IT ESCAPED THROUGH THE NOZZLES IN THE BALL, THE STEAM JET MADE THE BALL SPIN."







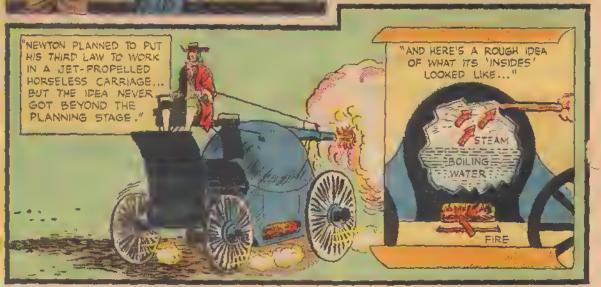




OPPOSITE DIRECTION.

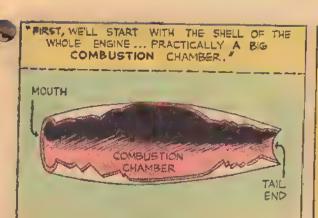


"AS HE THRUSTS HIS FOOT FORWARD, THE CANOE SHOOTS BACK."

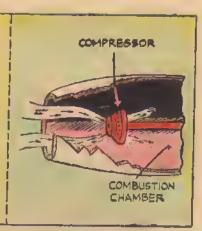






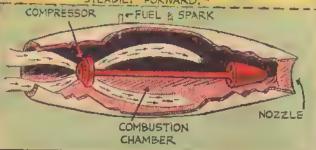


INSIDE
THE MOUTH IS
A ROTATING
FAN OR
COMPRESSOR,
WHICH SUCKS
IN AIR, PACKS
IT TIGHT AND
FORCES IT
BACKWARDS
INTO THE
COMBUSTION
CHAMBER...



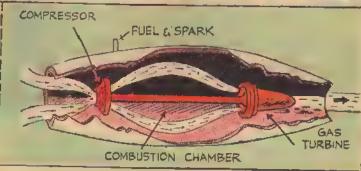
"IN THE COMBUSTION CHAMBER, FUEL IS MIXED WITH THIS COMPRESSED AIR AND BURNED. THIS COMBUSTION CREATES HOT, EXPANDING GASES WHICH BLAST OUT THROUGH THE NOZZLE AT THE TAIL-END WITH TERRIFIC FORCE. REACTION TO THIS STEADY JET PROPELS THE PLANE STEADILY FORWARD."

COMPRESSOR REFUEL & SPARK



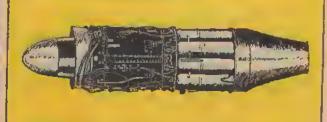


"YOU SEE, A GAS TURBINE IS
ADDED AT THE REAR OF THE
COMBUSTION CHAMBER. AS
THE HOT GASES RUSH THROUGH,
THEY PUSH PAST THE BLADES
OF THIS TURBINE, TURNING
THEM AS THE WIND TURNS A
WINDMILL. THAT SPINNING
TURBINE OPERATES THE
COMPRESSOR THROUGH A
DIRECT SHAFT."





AND HERE'S THE WAY A MODERN ENGINE -- THE G.E. TURBOJET ACTUALLY LOOKS ...



"IT HAS MANY COMBUSTION CHAMBERS -- BUT IT OPERATES ON THE SAME PRINCIPLE."









"THE ANSWER CAME IN OCTOBER, 1942, AT MUROC, CALIFORNIA. AN EXPERIMENTAL P-59 BELL ARACOMET WAS READY FOR ITS FLIGHT TESTS..."



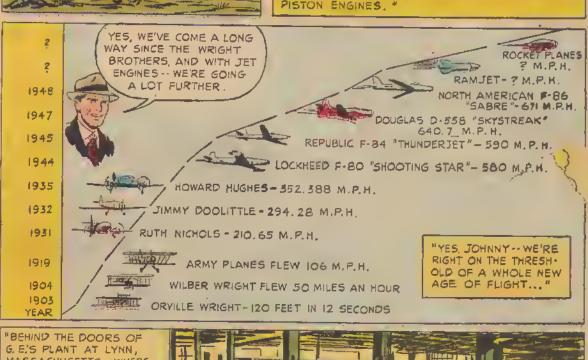


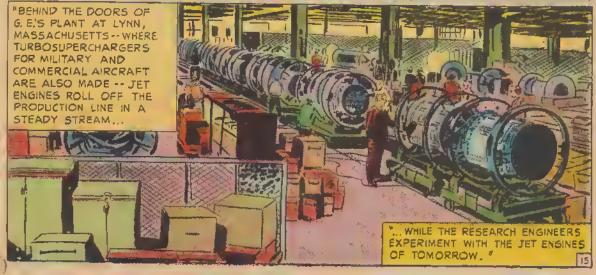




"AND REPUBLIC'S XF-91 (ONE J-47 PLUS ROCKETS) .. THE HIGH-ALTITUDE AIR FORCE PLANE, DESIGNED TO INTERCEPT HIGH-SPEED BOMBERS AND MISSILES."





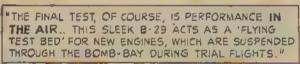




"MORE THAN 200 MANUFACTURERS FROM ALL OVER THE COUNTRY SHIP THE ENGINE PARTS TO LOCKLAND FOR ASSEMBLY AND TESTING!"



"BEHIND THE THICK WALLS OF THE TEST CELLS, THE POWERFUL TURBOJETS ARE TESTED -- AND RE-TESTED -- BY SKILLED TECHNICIANS WHO HAVE ONLY ONE STANDARO: PERFECT PERFORMANCE."







WOW ! HOPE



